



The University of Bonn is an international research university offering a broad range of subjects. With a 200-year history, some 31,500 students, more than 6,000 employees and an outstanding reputation in Germany and abroad, the University of Bonn is one of the leading universities in Germany and has been awarded the status of a University of Excellence.

The Geoinformation Group within the Institute of Geodesy and Geoinformation (IGG) at the University of Bonn is offering a fulltime and fully funded

PhD position (f/m/d)

for three years in accordance with § 2 (1) WissZeitVG. The position is funded until 07/2027 from the project FAIRagro (<https://fairagro.net/en/>) and afterwards from state funds.

FAIRagro is a collaborative project in which multiple research institutions in Germany jointly develop a data infrastructure for the agrosystem science domain. The successful candidate will contribute to the working area “Data Quality Annotation, Curation and Feedback/Review” of FAIRagro by developing innovative algorithmic methods for automatically assessing and visualizing the quality of geospatial data, such as multi-temporal data on land use and land cover. FAIRagro is a partner project of the Cluster of Excellence “PhenoRob: Robotics and Phenotyping for Sustainable Crop Production” (<http://www.phenorob.de/>), which will provide an open, supportive, and stimulating work environment for the PhD candidate at the University of Bonn.

Your tasks:

- Designing, implementing, and testing of novel methods of algorithmic data analytics and information visualization, to analyze and communicate the quality of geospatial datasets from the agrosystem science domain,
- Publishing results in peer reviewed journals and presenting at conferences,
- Cooperation with partners in FAIRagro and PhenoRob,
- Starting from 08/2027, the position is assigned a teaching load of four semester hours per week.

Your profile:

- An excellent MSc degree in geoinformatics, computer science, geodesy and geoinformation or related disciplines, preferably with a focus on the development of algorithms for the analysis of geospatial data,
- Profound programming skills in at least one high-level programming language, e.g., Python, Java or C++,
- Willingness to delve deeper into the applications of algorithmic data analytics in agrosystem science,
- Experience with unsupervised machine learning tasks such as clustering and outlier detection is an advantage.

We offer:

- Active participation in the international research hub The Cluster of Excellence “PhenoRob”,
- An open, supportive, and stimulating work environment promoting interdisciplinary research,
- The opportunity of conducting innovative research in the domain of geoinformatics,
- The possibility of obtaining a doctorate with the title Dr.-Ing.,
- Remuneration in accordance with TV-L pay grade 13.

The University of Bonn is committed to diversity and equal opportunity. It is certified as a family-friendly university. The University of Bonn seeks to increase female representation in staffing areas where women are underrepresented and provide special career support. It thus expressly encourages qualified women to apply. Applications will be handled in accordance with the NRW State Gender Equality Act (Landesgleichstellungsgesetz, LGG NRW). Applications from qualified candidates with a certified severe disability or from those of equal status are especially welcome.

Ideal starting date of the position as soon as possible. Applications quoting reference 2026/120 (CV including diploma certificates/transcripts, statement of motivation, list of publications if available, address for one reference) should be sent until March 31st 2026 to Prof. Dr.-Ing. Jan-Henrik Haunert (Email: haunert@igg.uni-bonn.de) with all documents in one PDF file. For further information concerning our research group, please visit our website at <https://www.igg.uni-bonn.de/geoinfo/en>.